


## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/01303

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
Int. Cl. <sup>7</sup> : C07D 239/91, 239/88, 239/74, 239/94, 241/42, 241/44, 241/46, 237/28, 219/06, 471/04, 471/14, 487/04, 491/052, A61K 31/436, 31/4375, 31/47, 31/473, 31/4745, 31/498, 31/4985, 31/50, 31/5025, 31/517, 31/519, A61P 25/28		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
STN: Chem Abs substructure based on a substructure of formula I, and keywords based on amyloid and alzheimers		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/50065 A2 (VERTEX PHARMACEUTICALS INCORPORATED) 27 June 2002 (& WO 02/057259, WO 02/059111, WO 02/062789, WO 02/066461, WO 02/068415) See claims and compounds IIa-52 and IIa-69	1, 2, 5-7, 10-29, 31, 33
X	WO 96/22990 A2 (STATE OF OREGON, acting by and through THE OREGON STATE BOARD OF HIGHER EDUCATION, acting for and on behalf of THE OREGON HEALTH SCIENCES UNIVERSITY AND THE UNIVERSITY OF OREGON, EUGENE, OREGON et al.) 1 August 1996 See examples 1-3, 21-23	1, 2, 5-7, 10-29, 33
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 22 December 2003		Date of mailing of the international search report 6 JAN 2004
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929		Authorized officer  G. D. HEARDER Telephone No : (02) 6283 2553

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 290 819 B1 (BIORESEARCH S.p.A.) 17 November 1988 See whole document, and particularly all compounds where Y=OH	1, 5-7, 10-29, 33
X	WO 98/06403 A1 (GEROLYMATOS S.A.) 19 February 1998 See whole document (re clioquinol)	1, 5-7, 10-29, 33
X	US 6,369,058 B1 (HUSSAIN et al.) 9 April 2002 See whole document	1, 5-7, 10-29, 33
X	US 5,902,810 A (PFLEIDERER et al.) 11 May 1999 See whole document	1, 5-7, 10-29, 33
X	Koshimura K. et al.: "The role of 6R-tetrahydrobiopterin in the nervous system"; Progress in Neurobiology 61 (2000) 415-438. See whole document	1, 5-7, 10-29, 33
X	US 2002/0025944 A1 (BUSH et al.) 28 February 2002 See whole document (re clioquinol)	1, 5-7, 10-29, 33
P, X A	WO 02/085908 A1 (PURDUE RESEARCH FOUNDATION et al.) 31 October 2002 Compounds of formula I Whole document	29, 33 1-34
P, X	WO 03/010146 A1 (NEURO3D) 6 February 2003 See examples and claims	1, 2, 5-7, 10-29, 31, 33
P, X	WO 03/016309 A1 (MERCK & CO. INC) 27 February 2003 See whole document	29, 31, 33
X A	WO 95/12417 A1 (ACEA PHARMACEUTICALS INC et al.) 11 May 1995 See compounds 48, 49, page 117 Whole document	29, 33 1-34
X	Chemical Abstracts abstract 48:46261 (& Journal of the Chemical Society, Abstracts (1952) 5985-93) See Chem Abs RN 7557-02-03 (8-hydroxyquinazoline)	32
X	WO 95/24379 A1 (CANCER RESEARCH CAMPAIGN TECHNOLOGY LIMITED) 14 September 1995 See page 62 compound NU1026 (& Chem Abs RN 16064-17-8P, 8-hydroxy 4(1H)-Quinazolinone)	32

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C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Chemical Abstracts abstract 111:194704 (& Tetrahedron Letters (1989), 30 (12), 1529-30) See Chem Abs RN 123458-49-1P, 9-hydroxy-4H-Pyrido[1,2-a]pyrimidin-4-one	32
X	Chemical Abstracts abstract 24:53157 (& Journal of the American Chemical Society (1930), 52, 3974-7) See Chem Abs RN 3697-13-0, 1,7-Phenanthrolin-6-ol	32
X	Chemical Abstracts abstract 45:47030 (& Yakugaku Zasshi (1945), 65, 69) See Chem Abs RN 410543-30-5, 5-chloro-8-hydroxy-1,6-Naphthyridine-7-carboxylic acid	32
A	WO 98/47969 A1 (UNIVERSITY OF PITTSBURGH) 29 October 1998 See whole document	1-34

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU03/01303

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
WO	0250065	AU	31166/02	AU	34047/02
		AU	90914/01	AU	90944/01
		AU	92670/01	AU	94558/01
		AU	96875/01	BR	0114088
		BR	0116493	CA	2422299
		CA	2422367	CA	2422371
		CA	2422378	CA	2422379
		CA	2432129	CA	2432131
		CA	2432222	CA	2432223
		CA	2432799	CA	2432872
		EP	1317447	EP	1317448
		EP	1317450	EP	1317452
		EP	1318997	EP	1345922
		EP	1345926	EP	1345927
		EP	1345929	EP	1353916
		HU	0302172	HU	0302173
		NO	20031188	NO	20031189
		NO	20031191	NO	20032670
		NO	20032703	NO	20032704
		US	2003004161	US	2003004164
		US	2003036543	US	2003055044
		US	2003064981	US	2003064982
		US	2003078166	US	2003078275
		US	2003105090	WO	0222601
		WO	0222603	WO	0222604
		WO	0222606	WO	0222607
		WO	0250066	WO	02057259
		WO	02059112	WO	02062789
		WO	02068415		
WO	9622990	AU	46024/96	BR	9510265
		EP	0805809	FI	973047
		NZ	300778	US	5801183
				CA	2211608
				NO	973402

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Information on patent family members

International application No.

PCT/AU03/01303

EP	0290819	JP	63297326	US	5047405		
WO	9806403	AU	36324/97	BR	9711194	CA	2264097
		CN	1230115	CZ	9900484	EP	0959888
		HU	9903906	KR	2000029958	NO	990595
		NZ	334124	PL	331822	SK	17999
		US	6001852				
US	6369058						
US	5902810	CA	2189131	DE	4418096	EP	0760664
		WO	9531987				
US	2002025944	NONE					
WO	02085908	NONE					
WO	03010146	FR	2827599				
WO	03016309	NONE					
WO	9512417	AU	11723/95	AU	46412/93	CA	2138026
		CA	2175795	EP	0647137	EP	0732942
		FI	946005	FI	961858	IL	111533
		NO	944942	NO	961770	NZ	254404
		NZ	276892	US	5514680	US	5620979
		US	5622952	US	5631373	US	5977107
		US	6147075	US	6251903	WO	9400124
WO	9524379	AU	18565/95	CA	2184747	CA	2350941
		CA	2352592	CN	1143358	EP	0749415
		EP	0879820	EP	0897915	US	5756510
		US	6015827	US	6316455		
WO	9847969	AU	13833/99	AU	56692/96	AU	71369/98
		BR	9809580	BR	9812776	CA	2219880
		CA	2309626	EE	9900503	EE	200000278
		EP	0823894	EP	0977815	EP	1028941
		EP	1110945	HU	0003804	HU	0100159
		HU	9900426	NO	975002	NO	995088
		NO	20002380	NZ	307369	NZ	500714
		PL	336321	PL	348226	SK	144099
		SK	6732000	US	6114175	US	6133259
		US	6168776	US	6417178	WO	9634853
		WO	9924394	ZA	9803301		
END OF ANNEX							